

Attorney Docket No.: 000211D13

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): MAGGENTI

Conf. No.: 4659

Application No.: 10/807,990

Art Unit: 2136

Filed: 23 Mar 2004

Examiner:
TRAORE, FATOUMATA

Title: A COMMUNICATION DEVICE FOR
PROVIDING SECURITY IN A GROUP
COMMUNICATION NETWORK

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PROPOSED AMENDMENTS FOR EXAMINER'S AMENDMENT

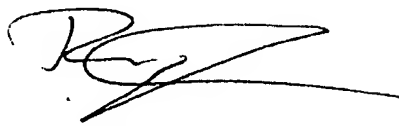
Sir:

Pursuant to the Amendment and RCE filed on 4/15/2009, in the above-identified application, the following are provided.

Amendments to the Specification:

Listing of the Claims: reflects amendments (if any) and the current status of each of the claims.

Remarks/Arguments: are provided.


Reg No. 52912

6/19/2008

Amendments to the Specification

Please amend Paragraph [0086] of the Specification as follows:

[0086] The administration server 248 makes all administrative functions available to a generic web browser via a HTTP web server interface with one or more pages formatted using an Internet readable programming language medium, such as Hyper Text Markup Language (HTML) syntax. At least one of the administrative pages may include a reference to an embedded Java.TM. applet. Some administrative functions may optionally be performed through HTTP GET and POST commands issued by the web browser using conventional HTACCESS authorization mechanisms. The administrative functions supported are generally a subset of those supported by the CLI interface.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method for synchronizing encryption and decryption of a data frame in a communication network, the method comprising:

encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code;

encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code;

encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code;

encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code;

and

transmitting said first transport frame and said second transport frame to a second communication device,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

2. (Original) The method of claim 1, wherein:

said first portion of said first sequential code and said first portion of said second sequential code each represent a short-term component of said first and second sequential codes, respectively; and

said second portion of said first sequential code and said second portion of said second sequential code each represent a long-term component of said first and second sequential codes, respectively.

3. (Original) The method of claim 1, wherein said transport frame comprises a radio link protocol (RLP) frame.

4. (Original) A computer-readable medium embodying computer codes for implementing a method for synchronizing encryption and decryption of a data frame in a communication network, the method comprising:

encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code;

encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code;

encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code;

encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code; and

transmitting said first transport frame and said second transport frame to a second communication device,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

5. (Original) The medium of claim 4, wherein:

said first portion of said first sequential code and said first portion of said second sequential code each represent a short-term component of said first and second sequential codes, respectively; and

said second portion of said first sequential code and said second portion of said second sequential code each represent a long-term component of said first and second sequential codes, respectively.

6. (Original) The medium of claim 4, wherein said transport frame comprises a radio link protocol (RLP) frame.

7. (Original) An apparatus for synchronizing encryption and decryption of a data frame in a communication network, comprising:

means for encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code;

means for encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code;

means for encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code;

means for encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code; and

means for transmitting said first transport frame and said second transport frame to a second communication device,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

8. (Original) The apparatus of claim 7, wherein:

said first portion of said first sequential code and said first portion of said second sequential code each represent a short-term component of said first and second sequential codes, respectively; and

said second portion of said first sequential code and said second portion of said second sequential code each represent a long-term component of said first and second sequential codes, respectively.

9. (Original) The apparatus of claim 7, wherein said transport frame comprises a radio link protocol (RLP) frame.

10. (Original) An apparatus, comprising:

a receiver;

a transmitter; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of implementing a method for synchronizing encryption and decryption of a data frame in a communication network ; the method comprising:

encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code;

encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code;

encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code;

encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code;

and

transmitting said first transport frame and said second transport frame to a second communication device,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

11. (Original) The apparatus of claim 10, wherein:

said first portion of said first sequential code and said first portion of said second sequential code each represent a short-term component of said first and second sequential codes, respectively; and

said second portion of said first sequential code and said second portion of said second sequential code each represent a long-term component of said first and second sequential codes, respectively.

12. (Original) The apparatus of claim 10, wherein said transport frame comprises a radio link protocol (RLP) frame.

13. (Currently Amended) A method for synchronizing encryption and decryption of a data frame in a communication network, the method comprising:

receiving a first transport frame at a communication device within the communication network, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first sequential code;

receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code; and

determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said second portion of said first sequential code,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

14. (Original) The method of claim 13, further comprising:

decrypting said second encrypted data payload using said second sequential code.

15. (Original) The method of claim 13, further comprising:

determining said first sequential code using said first portion of said first sequential code, said second portion of said first sequential code, and said second portion of said second sequential code.

16. (Original) The method of claim 15, further comprising:

decrypting said first encrypted data payload using said first sequential code.

17. (Currently Amended) A computer-readable storage medium embodying computer codes for implementing a method for synchronizing encryption and decryption of a data frame in a communication network, the method comprising:

receiving a first transport frame, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first sequential code;

receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code; and

determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said second portion of said first sequential code,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and

said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

18. (Original) The medium of claim 17, the method further comprising:
decrypting said second encrypted data payload using said second sequential code.

19. (Original) The medium of claim 17, the method further comprising:
determining said first sequential code using said first portion of said first sequential code, said second portion of said first sequential code, and said second portion of said second sequential code.

20. (Original) The medium of claim 19, the method further comprising:
decrypting said first encrypted data payload using said first sequential code.

21. (Currently Amended) An apparatus for synchronizing encryption and decryption of a data frame in a communication network, comprising:

means for receiving a first transport frame, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first sequential code;

means for receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code; and

means for determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said second portion of said first sequential code,

~~means for~~ wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

22. (Original) The apparatus of claim 21, further comprising:

means for decrypting said second encrypted data payload using said second sequential code.

23. (Original) The apparatus of claim 21, further comprising:

means for determining said first sequential code using said first portion of said first sequential code, said second portion of said first sequential code, and said second portion of said second sequential code.

24. (Original) The apparatus of claim 23, further comprising:

means for decrypting said first encrypted data payload using said first sequential code.

25. (Original) An apparatus, comprising:

a receiver;

a transmitter; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of implementing a method for synchronizing encryption and decryption of a data frame in a communication network, the method comprising:

receiving a first transport frame, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first sequential code;

receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code; and

determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said second portion of said first sequential code,

wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code.

26. (Original) The apparatus of claim 25, the method further comprising:

decrypting said second encrypted data payload using said second sequential code.

27. (Original) The apparatus of claim 25, the method further comprising:

determining said first sequential code using said first portion of said first sequential code, said second portion of said first sequential code, and said second portion of said second sequential code.

28. (Original) The apparatus of claim 27, the method further comprising:
decrypting said first encrypted data payload using said first sequential code.

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Previously Presented) The method of claim 1, wherein the encrypting and encapsulating steps are performed at a transport layer of an Internet Protocol (IP) standard.

34. (Previously Presented) The method of claim 1, wherein the encrypting of the first and second data frames is not based on a level of encryption associated with a higher-layer data object that includes data present within one of the first and second data frames.

35. (Previously Presented) The method of claim 1, wherein the first and second data frames carry data associated with a push-to-talk (PTT) or PTX communication session.